

Request For Information (RFI) **Relevant technologies for the control of zooplankton blooms in** **reservoirs (Ultra-Sonic and other measures)**

1. The Need

Mekorot Water Company Ltd. (hereinafter: “**Mekorot**”) is a world leader in water reuse by recycling over 80% of domestic wastewater for agricultural use. The company operates 40 reservoirs of reclaimed water with total surface area of *ca.* 700 hectares and annual supply of over 230 M m³. The reservoirs are considered to be *mesotrophic* to *eutrophic* based on nutrient concentrations. This contributes to excessive phytoplankton and zooplankton blooms.

These blooms interrupt continuous water supply by clogging irrigation equipment and filters. Up to now, Mekorot has dealt with this problem by treating with organophosphate pesticides, however regulation developments no longer permit this in Israel.

2. RFI for relevant potential technologies in order to meet the challenge of zooplankton blooms

1. **Mekorot is open to evaluate novel technologies to meet the said problem of zooplankton blooms and would like to call upon suppliers, producers, manufacturers, , entrepreneurs, developers etc. to offer their novel technologies to meet these challenges.**
2. In order to do so, Mekorot wishes to receive information regarding relevant solutions, technologies and other alternative measures to this issue. A proper solution to these nuisances, could serve as an opportunity to Mekorot to reduce the problematic peak plankton blooms and observe a solution that won't harm the environment.
3. In order to pursue this opportunity, Mekorot is willing to take part in a project that will test state-of-the-art equipment and address further development.
4. Mekorot wishes to test selected technologies in a commercial-scale reservoir. Mekorot will specify the requirements of a novel technology that would meet the end users needs. As long as Mekorot will choose to focus on one or more suggested technology, Mekorot might consider to form with the relevant entity/ies the platform for performing a study, according to the relevant regulations and its needs.
5. It should be noted, that during the studies, Mekorot has found UltraSound (US) technology as one possible (and promising) solution and might choose to explore its effect in its reservoirs, among other technologies

3. Preferences and qualities for the desired solution

In response to this RFI, please elaborate the following:

1. **General description** of the suggested solution.
2. **Operational:** simple to operate with minimum maintenance. Please specify the service routine.
3. **Environmental friendly:**
 - Zero to very low contamination;
 - low power consumption (please specify).
 - preferably self sufficient.
 - Information about potential side effects.
4. **Fish friendly-** As some reservoirs are using fish species for biological nuisance control, the suggested technology should not cause any harm to fish. Please provide information about potential side effects to fish.
5. **Regulatory:** the suggested solution should have or be in process of getting regulatory permits, please specify.
6. **Feasibility:** Please provide test cases and any academic publications that studied the suggested technology's efficiency in zooplankton reduction; Manufacturer references in this field.

4. General Conditions

This RFI is a preliminary process taken by Mekorot mainly for the purpose of receiving data and information.

Mekorot may use the whole or any part of the data and information received in order to consider and decide future procedures, in its sole discretion, in order to procure the implementation and to determine the appropriate contractual relationship and conditions, if made, in future Request For Proposals (hereinafter: "RFP") and/or contract.

Mekorot will keep confidentiality of all information and will sign NDA if needed.

5. Communication, Clarifications & Submission of Responses

Responses, questions and submission to this RFI, should be addressed to Mekorot's contact person, via Email only (**up to 4 MB for a single mail**), unless noted otherwise:

Mr. Gadi Zeira

Tel: + 972-4-6500690

Email: gzeira@Mekorot.co.il

The final submission date to this RFI is no later than October 10th, 2017 at 12:00 PM (Israel local time).

6. RFI Procedure & Condition

This RFI is a preliminary process taken by Mekorot mainly for the purpose of receiving data and information. All data and information gathered through this RFI, including, but not limited, references to technology performance, costs, timetables, future policy etc. is to be treated as a preliminary procedure only and Mekorot may use this data and information in future procedures, in its sole discretion.

Mekorot may use the whole or any part of the data and information received, for considering and deciding future steps in order to procure the implementation and to design the appropriate contractual relationship and conditions, if made, in future RFP or contract or any agreement, for the best interest of Mekorot.

Mekorot does not commit itself to take any further step such as proceeding to a RFP or sign a contract or conduct negotiations and does not commit itself to proceed with this procedure in any form. This RFI does not constitute a tender, a proposal or a RFP in any manner. Mekorot reserves the right to cancel this procedure completely at any stage and for any reason that is at Mekorot's sole discretion.

For the avoidance of any doubt, participation in the RFI process is not a prerequisite for the participation in a future RFP process or negotiations, if made, and Mekorot reserves the right to inspect other options for implementations that has not been submitted during the RFI stage.

After the submission date, Mekorot shall study and evaluate all the information gathered. During this period and where needed, discussions, meetings, questions and presentations including site visits may take place with all or any of the Respondents at Mekorot's sole discretion.

Whilst this RFI has been prepared with due care, any information contained herein is indicative only and it is provided in good faith for the guidance of the respondents. No representation, warranty or undertaking, expressed or implied, is or will be made, and Mekorot has no and shall not have responsibility or liability as to, or in relation to, the accuracy or completeness of this RFI documents, or to any suggestion made by it or by any other written or oral information made

available to any interested party or its advisers and any such responsibility or liability is hereby expressly disclaimed.

Respondents shall bear all costs associated with the preparation and submission of their responses to the RFI including (but not limited to) provision for any additional information and attendance at meetings, a site visit and possible demonstration of their proposed implementation. Mekorot shall neither be responsible for, nor pay for nor bear, any expense or loss, which may be incurred by Respondents in relation to their Response to this RFI.

Mekorot reserves the right to consider such Responses which may be appropriate on their merits at Mekorot's sole discretion.

This RFI is, and shall remain, the full property of Mekorot. It may be used for the purpose of preparing a Response to the RFI.

7. RFI Documents

The Responses shall contain all the documents, information and details required by the RFI, including all relevant information needed to prove the repliers answer to this RFI, contacts information, lab reports and all additional updated information needed for procurement of the implementation to the best knowledge of the Respondent.

In submitting the Response, the Respondent acknowledges and permits Mekorot to reproduce the whole or any portion of the Response documents for the purposes of evaluation, and for the preparation of, or forming part of any subsequent RFP or contract. **The respondent shall specifically note and mark** any kind of data or information which the Respondent has copyright or any other intellectual property right and Mekorot shall treat it as such.

8. Confidentiality

in submitting the Response, the Respondent undertakes to keep in confidence all and any kind of information and data relating, directly or indirectly to Mekorot or the State of Israel which the Respondent may get or be exposed to in relation to this RFI.